RECAPITULATION

OF

TECHNICAL PUBLICATIONS
TECHNICAL STANDARDS BULLETINS
TECHNICAL PAPERS GIVEN
PATENTS SECURED
PATENTS PENDING

by

All Members of the Staff

of

Technical Standards Division

October 1, 1943

TECHNICAL PUBLICATIONS

March 1939	M. M. Samuels	Fire or Water? *	Electric Light and Power
Nov. 1939	M. M. Samuels	Bottlenecks in Power Systems *	Electric Light and Power
Feb. 22, 1941	D. E. Basler J. F. Atkinson	Carrier Indicator Reports * Rural Outages	Electrical World
March 1941	M. M. Samuels	New Ideas in Rural Electrification Engineering	Agricultural Engineering
Sept. 20, 1941	B. O. Watkins	Design Voltage Regulation * on REA Rural Circuits	Electrical World
Oct. 4, 1941	S. Lubin	Wire and Transformer Size *1 to Prevent Motor-Start Flicker	Electrical World
Dec. 13,1941	B. O. Watkins	Transformer Protection * Timed for Secondary Faults	Electrical World
May 1942	J. R. Oberholtzer	Planned Sectionalizing * Improves REA-Type Systems	Electric Light and Power
June 1942	M. M. Samuels	Developments by REA * Engineers	Midwest Municipal Utilities
August 1942	F. B. Scott	Factors Causing Meter * Failures Disclosed	Electrical South
Oct. 3, 1942	F. B. Scott	Meter Failures Guide * REA to Correctives	Electrical World
Oct. 1942	M. M. Samuels	New Engineering and a New Industry	Electrical Engineering
Oct. 1942	F. B. Scott	Meter Test Kit Designed * for REA Systems	Electric Light and Power
Dec. 1942	M. M. Samuels	Electricity Puts Its * Hand to the Plow	The New Pencil Points
March 1943	E. C. Meyer	Essentials of a Farm * Type Frozen Food Cabinet	Agricultural Engineering

* No copies available

*1 No copies available - From Technical Standards Bulletin #2

April 1943	M. M. Samuels	Rural Electrification Engineering and Electro-Agricultural Engineering	Electrical Engineering
June 1943	M. M. Samuels	Analysis of Plant Factors *2	Public Power
1943	Lee M. Moore B. O. Watkins	Experience with Oil Circuit Reclosers on REA Systems	Electrical Engineering
From April 17, 1943 to August 7, 1943	S. Lubin	Series Capacitors. *3 Where Placed? How Big? (Series of 9 Articles)	Electrical World
Nov. 16, 1940	D. E. Basler	Load Conditions on * REA Lines	Electrical World
Aug. 21, 1943	H. S. Williams Max W. Rothpletz	Right Locations for *4 Step Regulators	Electrical World
Oct. 30, 1943	M. M. Samuels	Electro-Agricultural * Definitions Needed	Electrical World
Oct. 30, 1943	M. M. Samuels	Letter to the Editor * Independent Criticism of Engineering Design	Electrical World

* No copies available

*2 No copies available - From Technical Standards Bulletin #7
*3 No copies available - From Technical Standards Bulletin #5
*4 No copies available - From Technical Standards Bulletin #8

TECHNICAL PAPERS GIVEN BEFORE ENGINEERING ASSEMBLIES

Nov. 13, 1939	M. M. Samuels	Electric Power for National Defense	Raleigh Engineers Club, Raleigh, N. C.
Nov. 13, 1939	M. M. Samuels	On the Threshold of a New Rural Electrification Engineering	Faculty and Student Body of State College of Agriculture and Engineering, University of North Carolina
April 12, 1940	M. M. Samuels	Electric Power for National Defense	Florida Engineering Society, Hollywood, Florida
April 19, 1940	M. M. Samuels	The Dawn of Rural Electrification Engineering	College of Engineering University of Florida Gainesville, Florida
Dec. 5, 1940	M. M. Samuels	New Ideas in Rural Electrification Engineering	American Society of Agricultural Engineers Convention, Chicago, Ill.
Jan. 28, 1941	W. T. Smith, REA K. J. Plucknett, REA T. A. Taylor, A.T. & T. Company	Inductive Co-ordination of REA Distribution Systems and Telephone Systems	A.I.E.E. Convention, Philadelphia, Pa.
Oct. 24, 1941	M. M. Samuels	The Development of the Young Engineer	Student Conference of A.I.E.E., University of Maryland, College Park, Maryland
Jan. 28, 1942	M. M. Samuels	Discussion on Distribution Systems in War Time	A.I.E.E. Convention New York, New York
May 4, 1942	F. B. Scott	A Million Meters on REA Rural Lines	Southeastern Metermen's Conference, University of Florida
May 11, 1942	M. M. Samuels	Developments by REA Engineers	Midwest Municipal Utilities Conventions St. Louis, Mo.
June 29, 1942	E. C. Meyer	Essentials of a Farm Type Frozen Food Cabinet *	A.S.A.E. Milwaukee, Wisconsin
~~October 1942~~ Dec. 3, 1941	M. M. Samuels	New Engineering and a New Industry *	A.S.A.E. Chicago, Ill.

* No copies available.

(Technical Papers Given Before
Engineering Assemblies)

Jan. 25, 1943	M. M. Samuels	Rural Electrification * Engineering and Electro-Agricultural Engineering	A.I.E.E. Convention New York, N. Y.
April 1943	S. Lubin	Elimination of Radio * Interference from Rural Power Lines	Institute of Radio Engineers, St. Louis, Mo.
June 22, 1943	J. P. Schaenzer	Electro-Agricultural Equipment for War and Peace	A.S.A.E. Conventions, Purdue University
June 23, 1943	Lee M. Moore (Bruce O. Watkins represented by Max Rothpletz)	Experience with Oil * Circuit Reclosers on REA Systems	A.I.E.E. Convention Cleveland, Ohio

* No copies available.

TECHNICAL STANDARDS BULLETINS IN PRINT

Date	Bulletin No.	Title	
7/15/41 Revised 2/15/42	1	Determination of Permissible Overloads on Distribution Transformers	S. Lubin
8/4/41 Revised 6/1/43	2	Determination of Size of Service or Secondary Conductor to Prevent Flicker	S. Lubin
8/3/41	3	A Critical Analysis of Some "Factors" in Electric Utility Practice	M. M. Samuels
7/8/41 Revised 9/15/42	4	Suggestions and Procedure for Making a Sectionalizing Study	B. O. Watkins
4/23/42	5	Use of Series Capacitors for Voltage Regulation	S. Lubin
9/9/42	6	Use of Shunt Capacitors for Power Factor Improvements	S. Lubin
9/7/42	7	An Analysis of Plant Factors of Some Large Steam Plants	M. M. Samuels
3/27/43	8	Step Voltage Regulator	H. S. Williams M. W. Rothpletz
Revised 6/5/43	9	The Induction Voltage Regulator	N. Whitney Matthews N. M. Levinson S. Lubin

TECHNICAL STANDARDS BULLETINS BEING WRITTEN

	10	Transformer Problems	B. O. Watkins
	11	Procedure for Preparing a Voltage Drop Study	B. O. Watkins M. W. Rothpletz
	12	Transformer Losses	S. Shiozawa
	13	Preliminary Analysis of Small Hydro-Electric Sites	L. P. Slattery F. H. Robinson J. W. Carpenter S. Lubin S. Shiozawa
Nov. 15, 1941		Basic One Line Connection Diagrams for Power Houses and Substations	M. M. Samuels

PATENTS SECURED ON INVENTIONS *

Dec. 2, 1941	M. M. Samuels Lee M. Moore	Insulator Supporting Bracket for Electrical Transmission Lines	2,264,773
July 7, 1942	M. M. Samuels Lee M. Moore	Transmission Line Supports	2,288,746
Nov. 3, 1942	Donnan E. Basler Harold W. Kelley Bruce O. Watkins	Vector Calculating Board	2,300,401
April 13, 1943	Bruce O. Watkins	Current Differentiated Tuning Mechanism	2,319,279
	Donnan E. Basler Harold W. Kelley N. Whitney Matthews	Insulator Support and Coupling Method	2,332,502

* Copies of patents can be obtained from the U. S. Patent Office

PATENTS PENDING ON INVENTIONS

J. Frank Atkinson Donnan E. Basler	Carrier Current Outage Indicator
N. Whitney Matthews	Plug-In Meter Jack
J. A. Oberholtzer	Hot-Line Clamp
N. Whitney Matthews	Improvements in Electric Circuit Breakers
J. F. Atkinson	Carrier-Current Dispatching System Coupling Capacitor
J. F. Atkinson	Ground Meter
B. O. Watkins	Circuit Breaker

NOTE: Patent applications for members of other Divisions were also handled by the Technical Standards Division.